

Fig. 1A

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          310      320      330      340      350      360
HUMAN  AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSIPSPPGPNCQFLGGDHYSPLLP
      ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
MOUSE  AVTAYQNAEITQLKIDNNPFAKGFRENFESMYASVDTSVPSPPGPNCQLLGGDPFSPLLS
      300      310      320      330      340      350

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CONS AVTAYQNAEITQLKIDNNPFAKGFRENFESMY SVDTS PSPPGPNCQ LGGD FSPLL

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          370      380      390      400      410      420
HUMAN  NQYPVPSRFYPDLPGQAKDVVPQAYWLGAPRDHSYEAEFRAVSMKPAFLPSAPGPTMSYY
      ::::::::::::::: :... : ::::::::::::::::::::::::::::::::::::::: ::
MOUSE  NQYPVPSRFYPDLPGQPKDMISQPYWLGTPREHSYEAEFRAVSMKPTLLPSAPGPTVPYY
      360      370      380      390      400      410

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CONS NQYPVPSRFYPDLPGQ KD Q YWLG PR HSYEAEFRAVSMKP LPSAPGPT YY

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          430      440      450      460      470      480
HUMAN  RGQEV LAPGAGWPVAPQYPPKMGPASWFRPMRTLPMEPGPGGSEGRGPEDQGPPLVWTEI
      ::::::::::::::::::::::::::::::::::::::::::::::: :... : . : . :
MOUSE  RGQDVLAPGAGWPVAPQYPPKMSPAGWFRPMRTLPMDPGLGSSEEQG----SSPSLWPEV
      420      430      440      450      460      470

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CONS RGQ VLAPGAGWPVAPQYPPKM PA WFRPMRTLPM PG G SE G P W E

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          490      500      510      520      530
HUMAN  APIRPESSDGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEAEGQFYNTFPN
      . . . : ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
MOUSE  TSLQPEPSDGLGEGDTKRRRISYPYPSSGDSSSPAGAPSPFDKETEGQFYNYFPN
      480      490      ↑↑↑ 500      510      520      530

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CONS PE SDSGLGEGD KRRR SPYPSSGDSSSPAGAPSPFDKE EGQFYNYFPN

Fig. 1A (continued)

	10	20	30	40	50	60
HUMAN	ATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGG					
	:	:	:	:	:	:
MOUSE	ATGGGCATCGTGGAGCCGGGCTGCGGAGACATGCTGACCGGCACCGAGCCGATGCC---					
	10	20	30	40	50	
	70	80	90	100	110	120
HUMAN	AGCGACGAGGGCCGGGCGCCTGGCGCCGACCCGCAGCACCGCTACTTCTACCCGGAGCCG					
	:	:	:	:	:	:
MOUSE	AGTGACGAGGGCCGGGGCCCGGAGCGGACCAACAGCATCGTTTCTTCTATCCCGAGCCG					
	60	70	80	90	100	110
	130	140	150	160	170	180
HUMAN	GGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGGGTCTCCCTACCCGGGG					
	:	:	:	:	:	:
MOUSE	GGCGCACAGGACCCGACCGATCGCCGCGCAGGTAGCAGCCTGGGGACGCCCTACTCTGGG					
	120	130	140	150	160	170
	190	200	210	220	230	240
HUMAN	GGCGCCTTGGTGCCCGCCCCGCCGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCGCGA					
	:	:	:	:	:	:
MOUSE	GCGCCCTGGTGCTTGCCGCGCCGGGTCGCTTCCTTGGATCCTTCGCCTACCCGCCCCGG					
	180	190	200	210	220	230
	250	260	270	280	290	300
HUMAN	CCCCAGGCGGCGCGCTTCCCCGGCGCGGGCGAGTCCTTCCCGCCGCCCGCGGACGCCGAG					
	:	:	:	:	:	:
MOUSE	GCTCAGGTGGCTGGCTTTCCCCGGGCTGGCGAGTTCTTCCCGCCGCCCGCGGGTGCGGAG					
	240	250	260	270	280	290
	310	320	330	340	350	360
HUMAN	GGCTACCAGCCGGGCGAGGGCTACGCCGCCCCGGACCCGCGCGCGGGGCTCTACCCGGGG					
	:	:	:	:	:	:
MOUSE	GGCTACCCGCCCGTGGATGGCTACCCTGCCCTGACCCGCGCGCGGGGCTCTACCCAGGG					
	300	310	320	330	340	350
	370	380	390	400	410	420
HUMAN	CCGCGTGAGGACTACGCGCTACCCGCGGGACTGGAGGTGTCTGGGGAAGCTGAGGGTCGCG					
	:	:	:	:	:	:
MOUSE	CCGCGCGAGGACTACGATTGCCCGCGGGGTTGGAGGTGTCTGGGAAGCTGAGAGTCGCG					
	360	370	380	390	400	410

Fig. 1 B

	430	440	450	460	470	480
HUMAN	CTCAACAACCACCTGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACC					
	::: ::::::::::::::::::::::: :: ::::::::::::::::::::::::::::::					
MOUSE	CTCAGCAACCACCTGTTGTGGTCCAAGTTCAACCAGCACCAGACAGAGATGATCATCACT					
	420	430	440	450	460	470
	490	500	510	520	530	540
HUMAN	AAGCAGGGACGGCGGATGTTCCCATTCCTGTCAATTTACTGTGGCCGGGCTGGAGCCCACC					
	::: ::::::::::::::::::::::: :: ::::::::::::::::::::::::::::::					
MOUSE	AAGCAAGGACGGCGAATGTTCCCATTCCTGTCCTTCACCGTGGCCGGGCTGGAGCCCACA					
	480	490	500	510	520	530
	550	560	570	580	590	600
HUMAN	AGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAG					
	::: ::::::::::::::::::::::: :: ::::::::::::::::::::::::::::::					
MOUSE	AGCCATTACAGGATGTTTGTGGATGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAG					
	540	550	560	570	580	590
	610	620	630	640	650	660
HUMAN	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCCTGTAC					
	::: ::::::::::::::::::::::: :: ::::::::::::::::::::::::::::::					
MOUSE	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCAGAAGGCAGCATGCCAGGGAACCGCTTATAT					
	600	610	620	630	640	650
	670	680	690	700	710	720
HUMAN	GTCCACCCGGACTCCCCAACACAGGAGCGCACTGGATGCGCCAGGAAGTTTCATTTGGG					
	::: ::::::::::::::::::::::: :: ::::::::::::::::::::::::::::::					
MOUSE	GTCCACCCAGACTCCCCAACACCGGAGCCCACTGGATGCGCCAGGAAGTTTCATTTGGG					
	660	670	680	690	700	710
	730	740	750	760	770	780
HUMAN	AAACTAAAGCTCACAAACAACAAGGGGGCGTCCAACAATGTGACCCAGATGATTGTGCTC					
	:: ::::::::::::::: ::::::::::::::: ::::::::::::::: :: ::					
MOUSE	AAGCTAAAGCTCACCAACAACAAGGGGGCTTCCAACAATGTGACCCAGATGATCGTCCTG					
	720	730	740	750	760	770
	790	800	810	820	830	840
HUMAN	CAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCCA					
	::: ::: ::::::::::::::::::::::: ::: ::::::::::::::: :: :::::::::::::::					
MOUSE	CAGTCTCTCCACAAGTACCAGCCCCGGCTGCACATCGTGAGGTGAATGATGGAGAGCCA					
	780	790	800	810	820	830

Fig. 1 B (continued)

[illegible]

Abstract.

Abstract.

1270 1280 1290 1300 1310 1320
 HUMAN CGAGGCCAGGAGGTCTGGCACCTGGAGCTGGCTGGCCTGTGGCACCCAGTACCCCTCCC
 :: ::::: :: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
 MOUSE CGGGGCCAAGACGTCTGGCGCCTGGAGCTGGTTGGCCCCGTGGCCCCCTCAATACCCGCC
 1260 1270 1280 1290 1300 1310

1330 1340 1350 1360 1370 1380
 HUMAN AAGATGGGCCCCGCCAGCTGGTTCCGCCCTATGCGGACTCTGCCCATGGAACCCGGCCCT
 ::::: ::::: :: ::::: ::::: ::::: ::::: ::::: ::::: :::::
 MOUSE AAGATGAGCCCAGCTGGCTGGTTCCGCCCATGCGAACTCTGCCCATGGACCCGGGCCTG
 1320 1330 1340 1350 1360 1370

1390 1400 1410 1420 1430 1440
 HUMAN GGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCTTGGTGTGGACTGAGATT
 :: ::::: :: ::::: : ::::: : ::::: ::::: :
 MOUSE GGATCCTCAGAGGAACAGGGCTCCT-----CCCCCTCGCTGTGGCCTGAGGTC
 1380 1390 1400 1410 1420

1450 1460 1470 1480 1490 1500
 HUMAN GCCCCATCCGGCCGGAATCCAGTGATTCAGGACTGGGCGAAGGAGACTCTAAGAGGAGG
 :: :: ::::: ::::: :: ::::: ::::: ::::: ::::: ::::: :::::
 MOUSE ACCTCCCTCCAGCCGGAGCCCAGCGACTCAGGACTAGGCGAAGGAGACACTAAGAGGAGG
 1430 1440 1450 1460 1470 1480

1510 1520 1530 1540 1550 1560
 HUMAN CGCGTGTCCCCCTATCCTTCCAGTGGTGACAGCTCCTCCCCTGCTGGGGCCCCTTCTCCT
 : : ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
 MOUSE AGGATATCCCCCTATCCTTCCAGTGGCGACAGCTCCTCTCCCGCTGGGGCCCCTTCTCCT
 1490 1500 1510 1520 1530 1540

1570 1580 1590 1600
 HUMAN TTTGATAAGGAAGCTGAAGGACAGTTTATAACTATTTTCCCAACTGA
 ::::: : ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
 MOUSE TTTGATAAGGAAACCGAAGGCCAGTTTATAATTATTTTCCCAACTGA
 1550 1560 1570 1580 1590

Fig. 1B (continued)

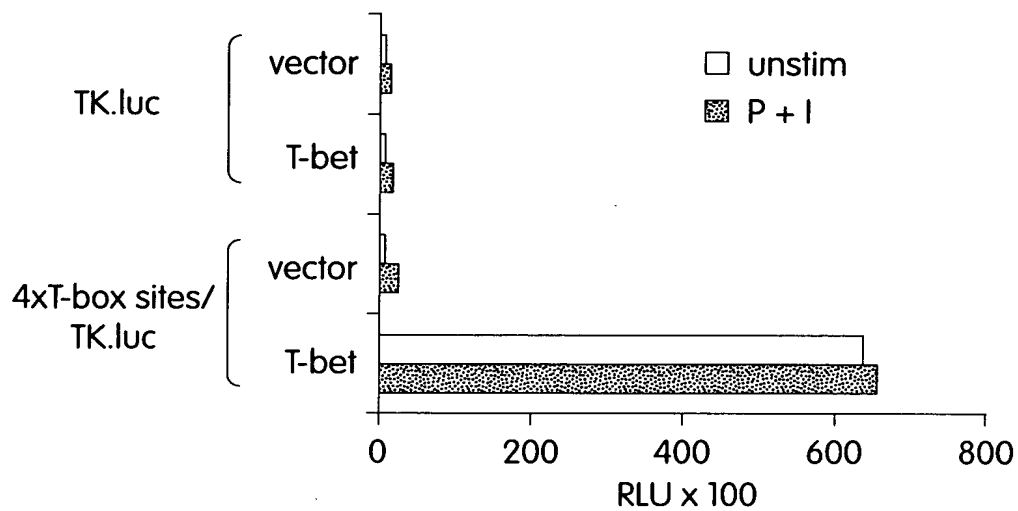


Fig. 2A

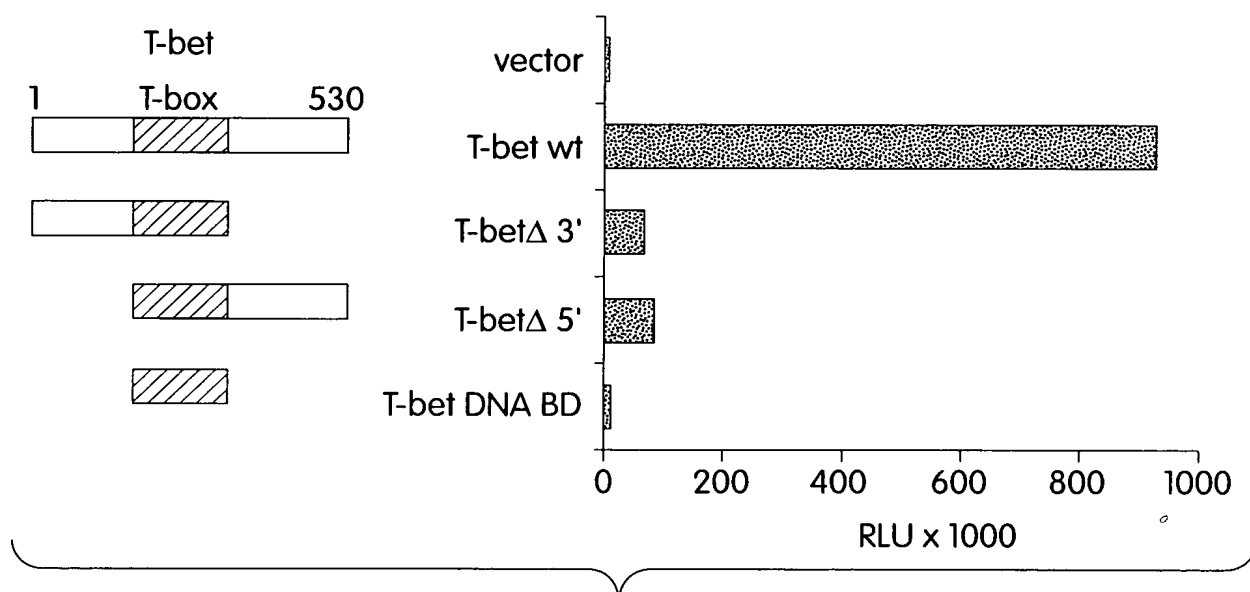


Fig. 2B



Fig. 3A



Fig. 3B



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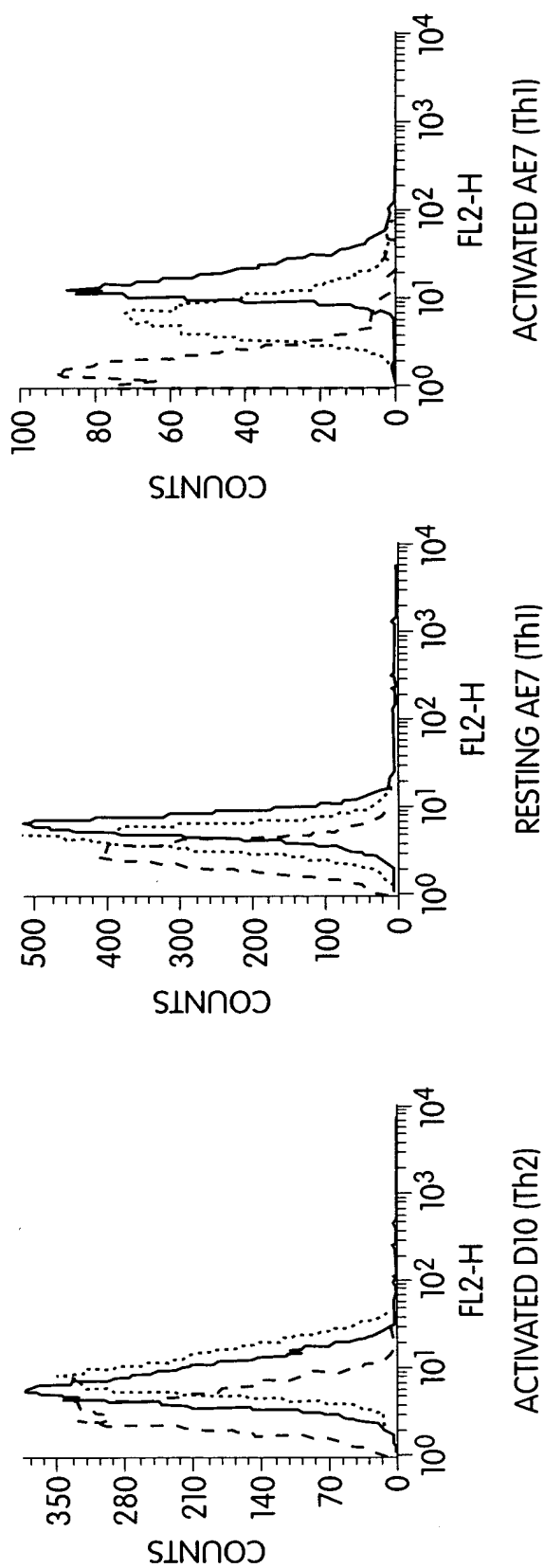


Fig. 3D

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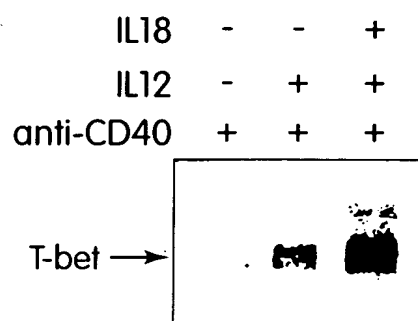


Fig. 4A

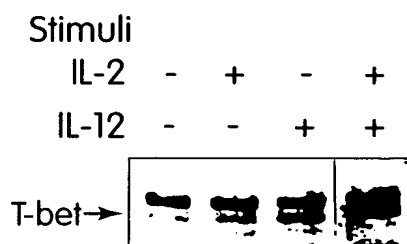


Fig. 4B

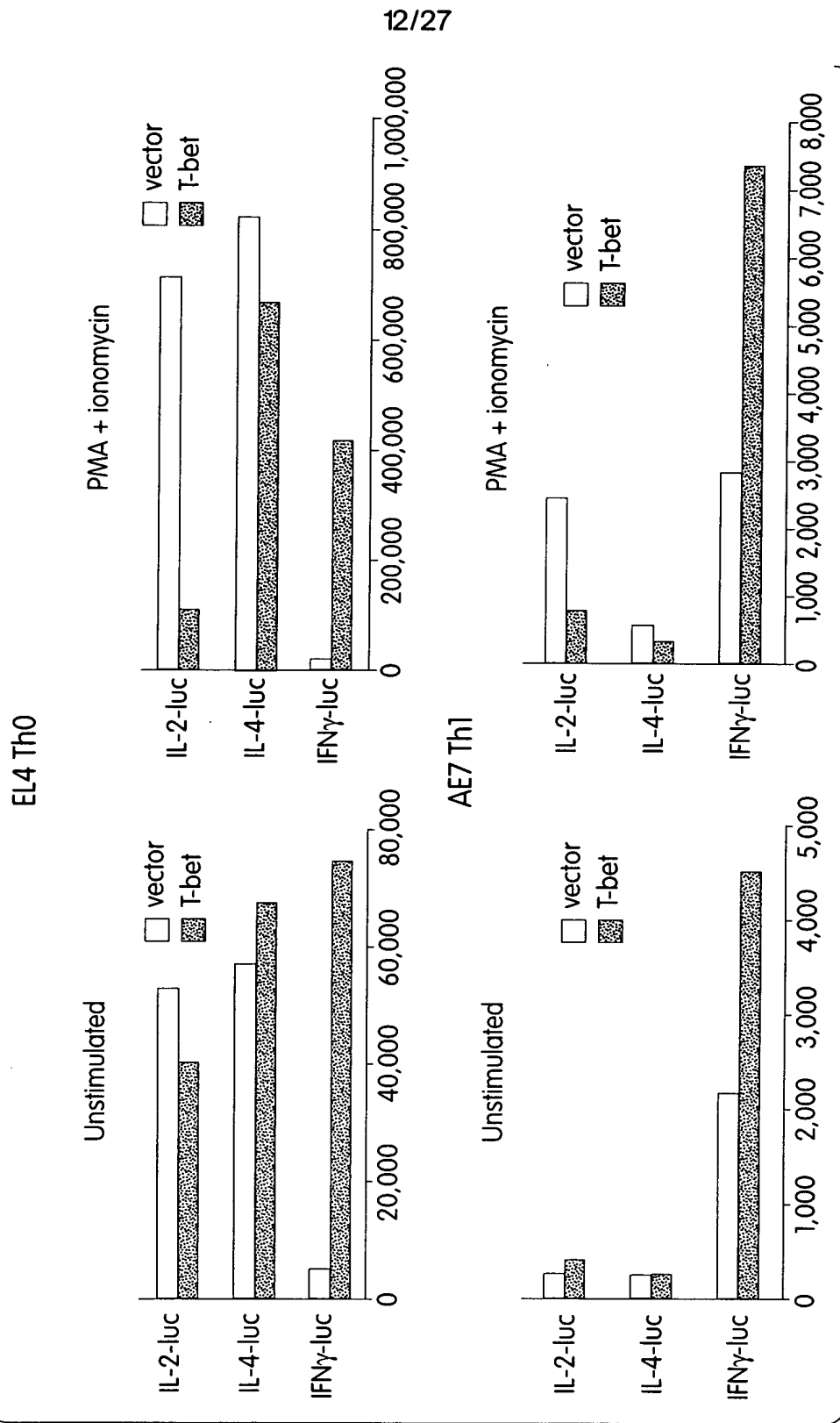


Fig. 5

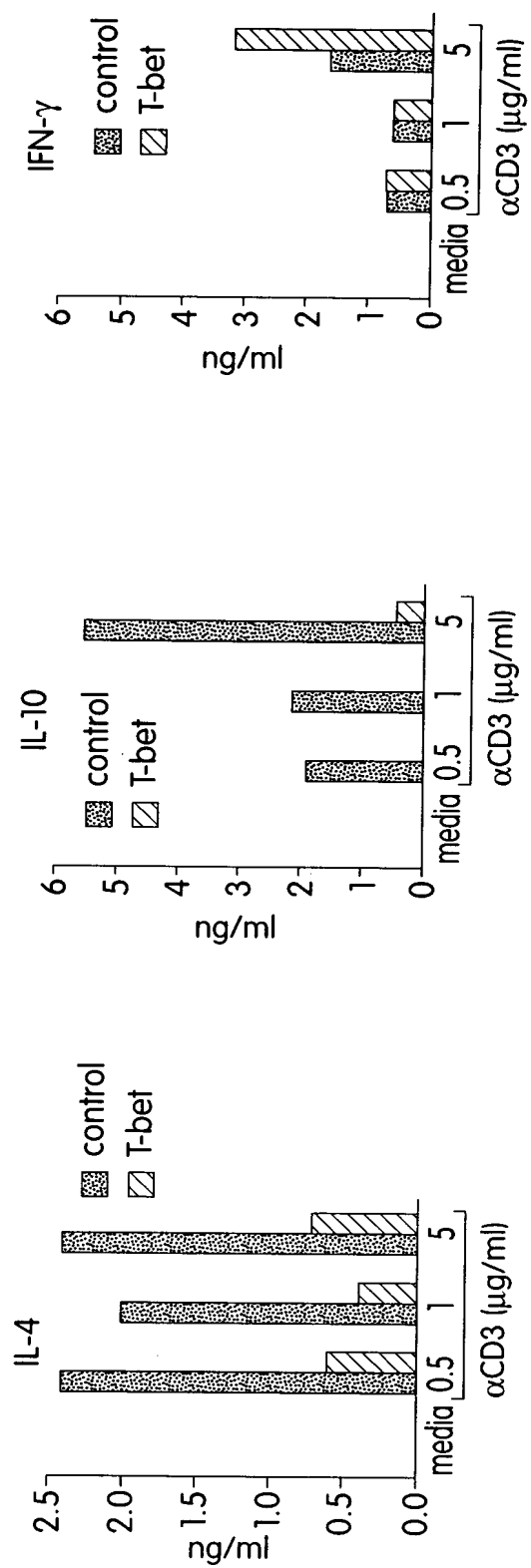


Fig. 6

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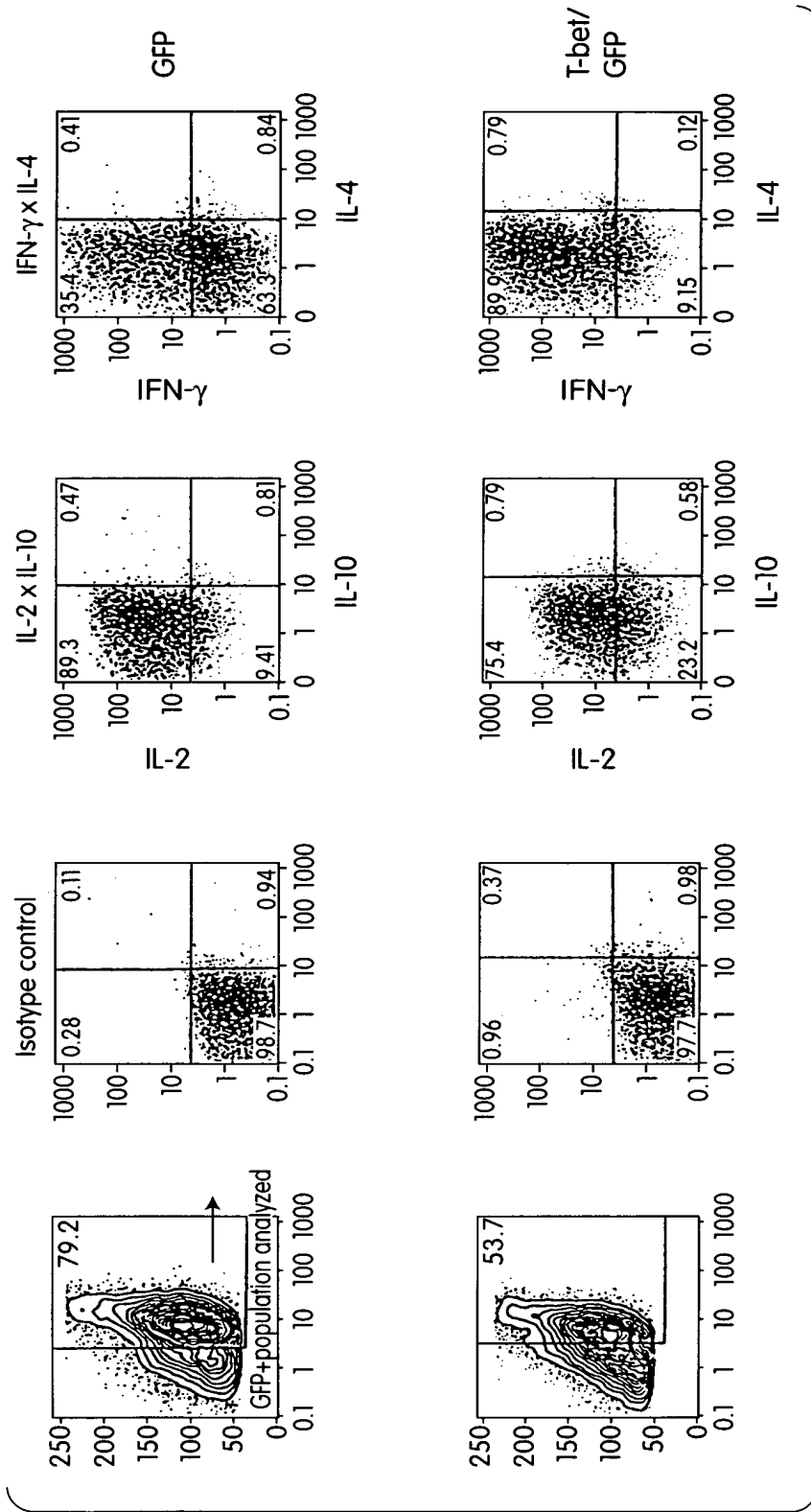


Fig. 7

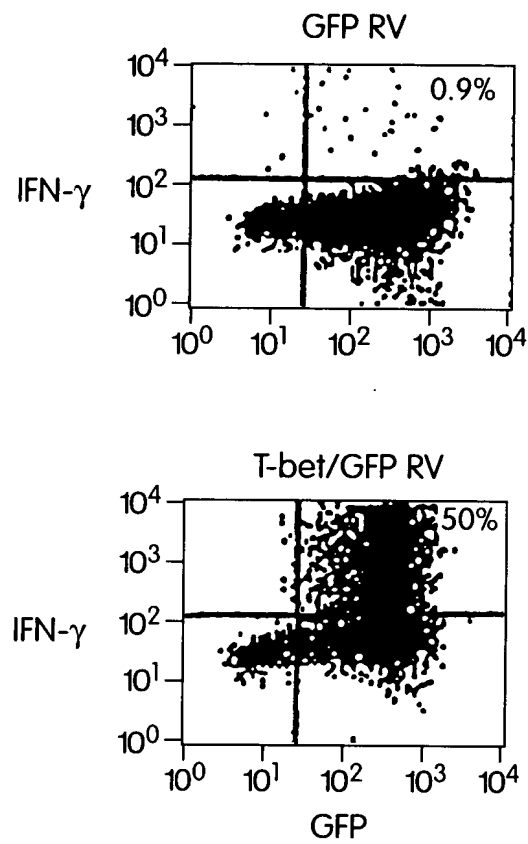


Fig 8A

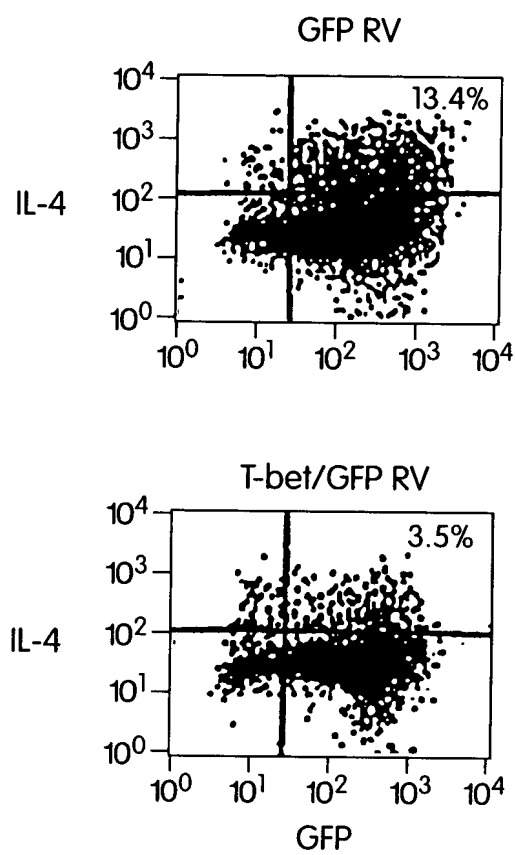


Fig 8B

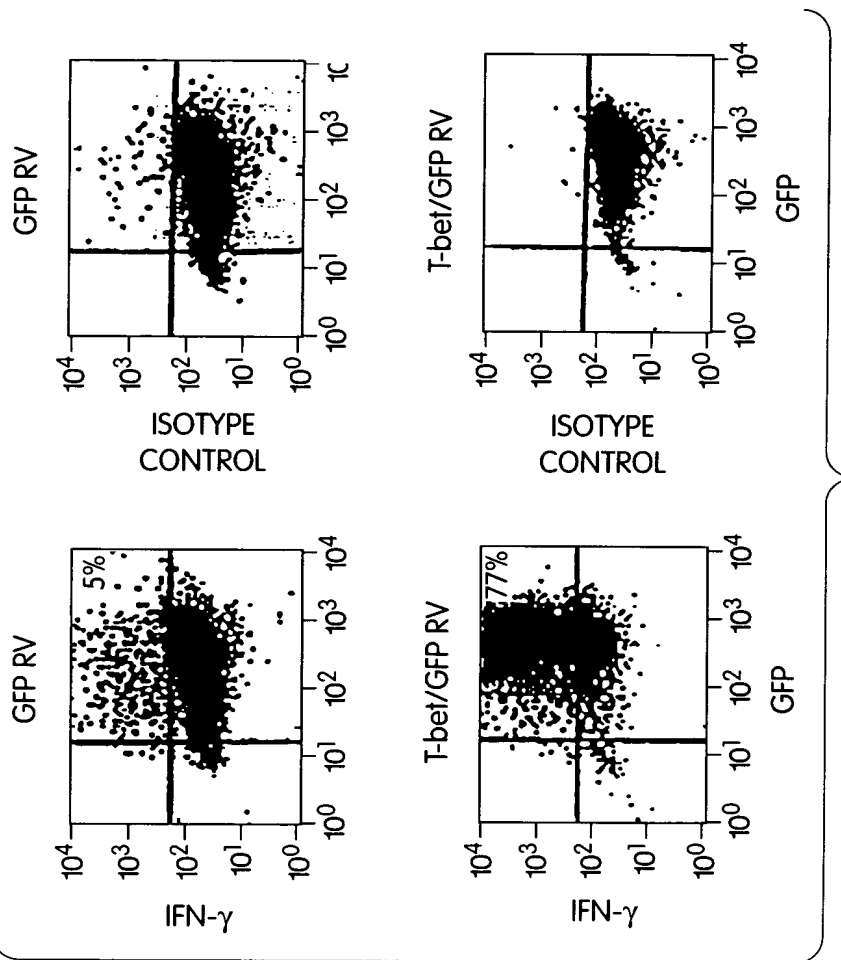


Fig 9A

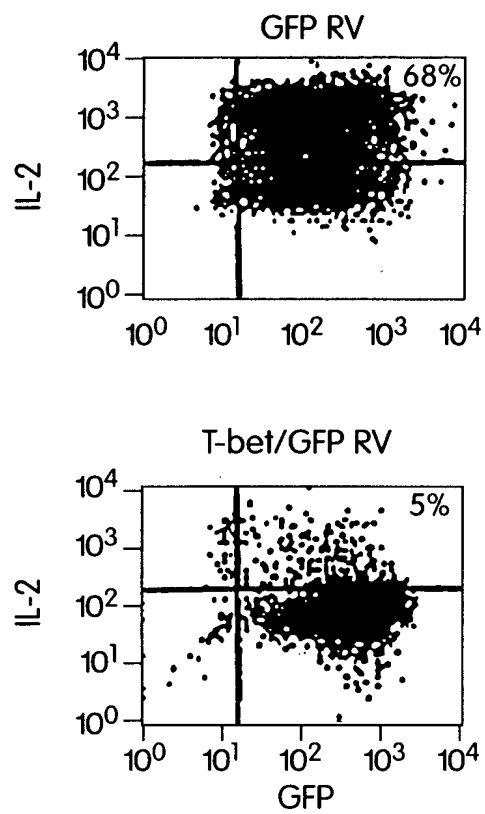


Fig 9B

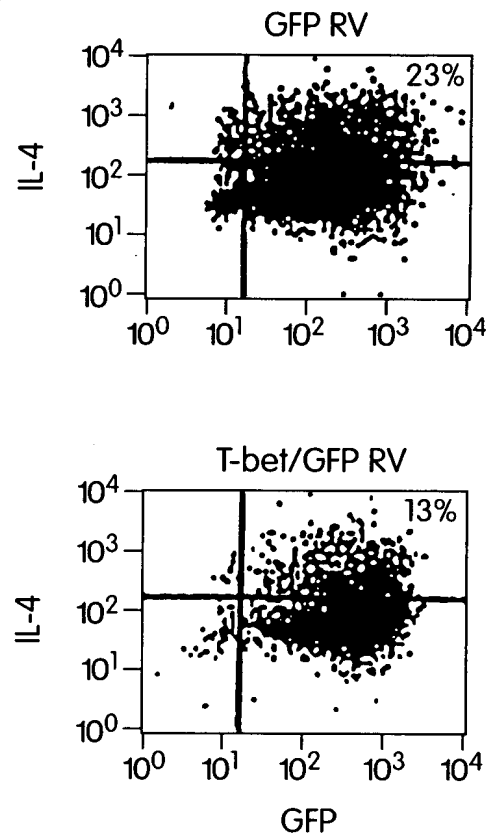


Fig 9C

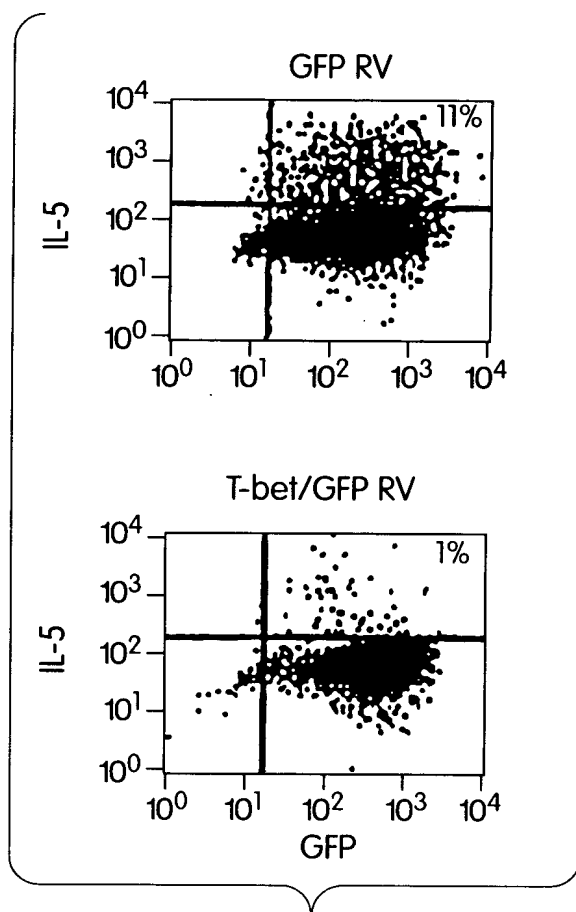


Fig 9D

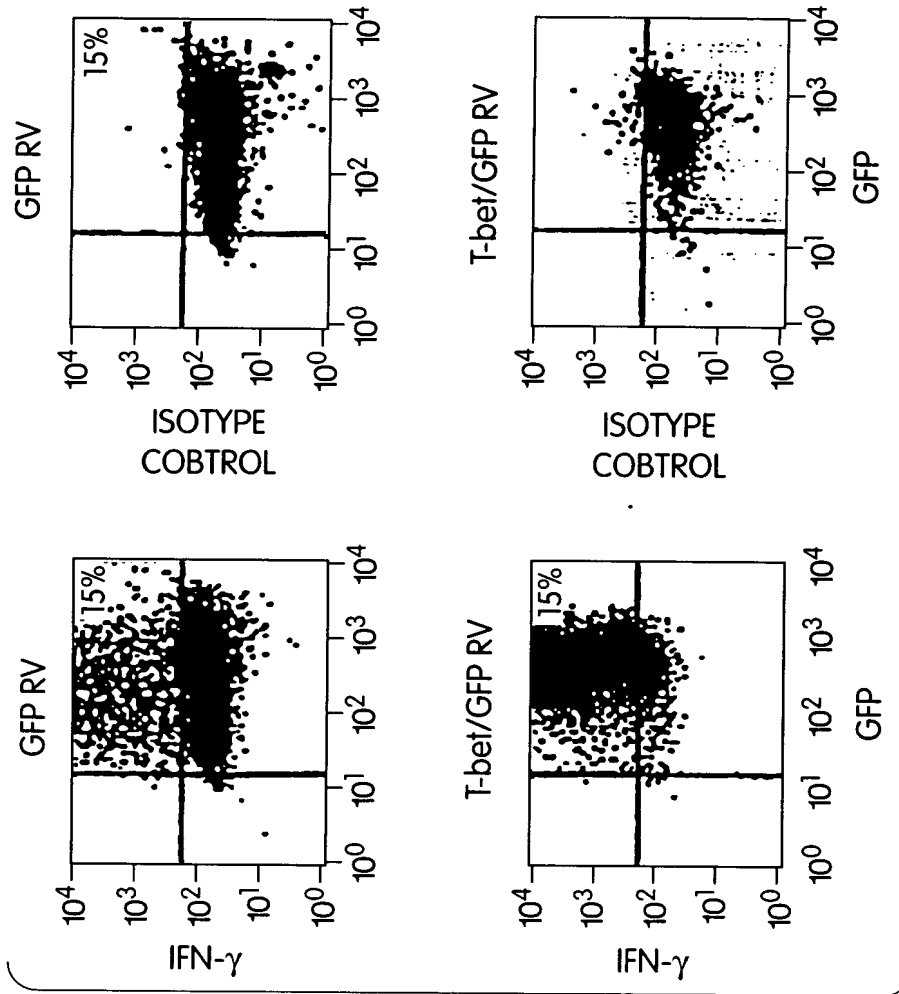


Fig 10A

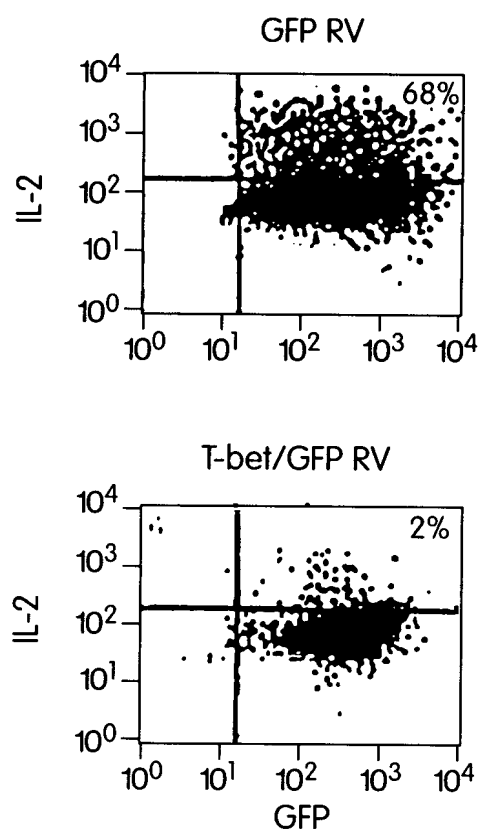


Fig. 10B

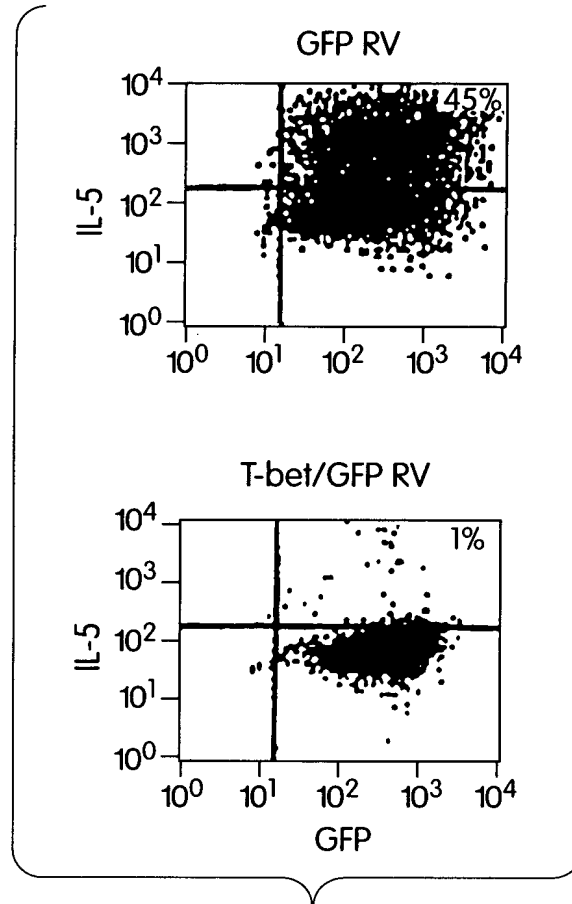


Fig. 10C

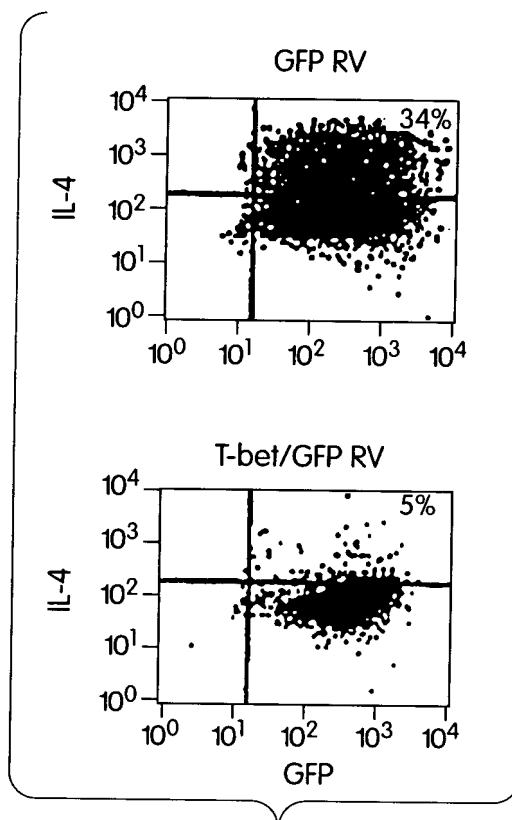


Fig. 10D

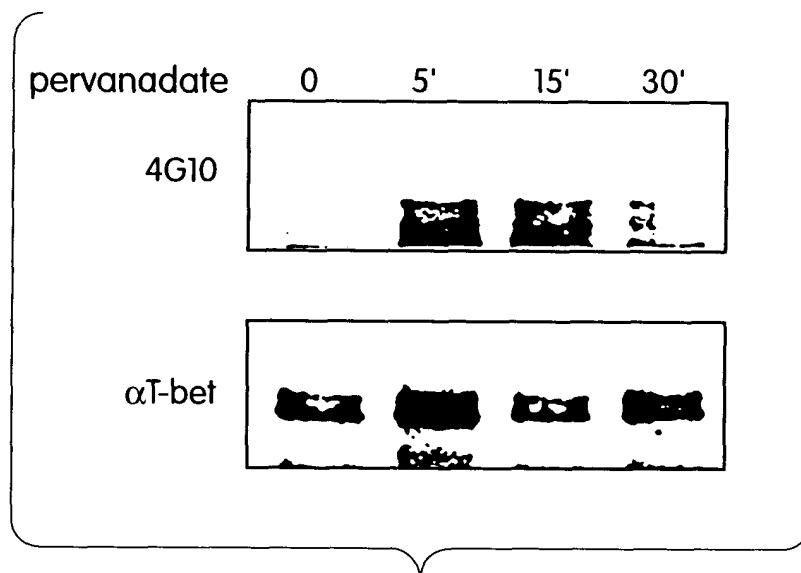


Fig 11

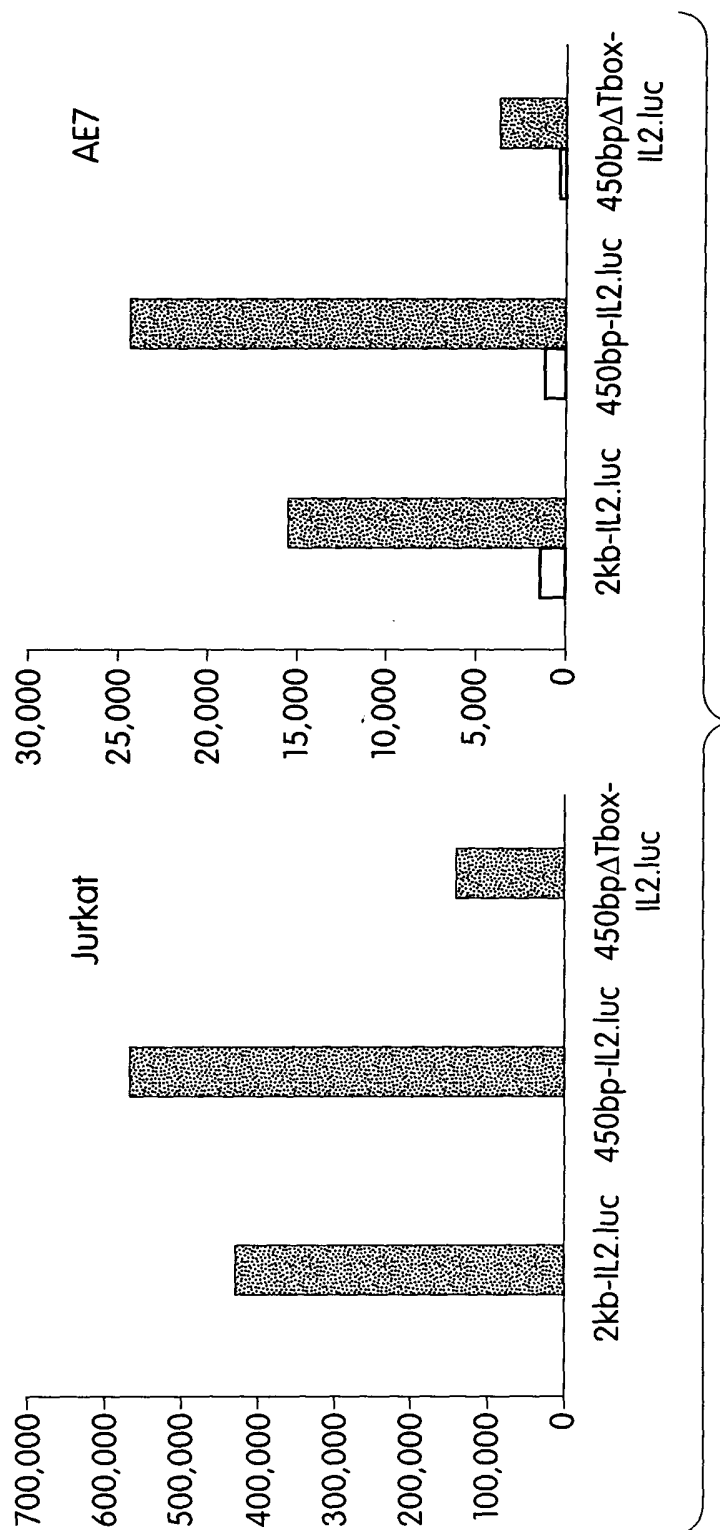


Fig. 13